

$f_4(2050)$ mass (MeV)

$f_4(2050)$ WIDTH

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
222 ± 19 OUR NEW AVERAGE	Error includes scale factor of 1.8. See the ideogram below. [208 ± 13 MeV OUR 1998 AVERAGE Scale factor = 1.2]			
395 ± 40		ALDE	98 GAM4	$100 \pi^- p \rightarrow \pi^0 \pi^0 n$
300 ± 50		BELADIDZE	92B VES	$36 \pi^- p \rightarrow \omega \omega n$
170 ± 60		ALDE	90 GAM2	$38 \pi^- p \rightarrow \omega \omega n$
304 ± 60		AUGUSTIN	87 DM2	$J/\psi \rightarrow \gamma \pi^+ \pi^-$
210 ± 63		BALTRUSAIT..	87 MRK3	$J/\psi \rightarrow \gamma \pi^+ \pi^-$
400 ± 100		ALDE	86D GAM4	$100 \pi^- p \rightarrow n 2\eta$
240 ± 40	40k	⁹ BINON	84B GAM2	$38 \pi^- p \rightarrow n 2\pi^0$
190 ± 14		DENNEY	83 LASS	$10 \pi^+ n / \pi^+ p$
186^{+103}_{-58}		¹⁰ CASON	82 STRC	$8 \pi^+ p \rightarrow \Delta^{++} \pi^0 \pi^0$
305^{+36}_{-119}		ETKIN	82B MPS	$23 \pi^- p \rightarrow n 2 K_S^0$
180 ± 60	700	APEL	75 NICE	$40 \pi^- p \rightarrow n 2\pi^0$
225^{+120}_{-70}		BLUM	75 ASPK	$18.4 \pi^- p \rightarrow n K^+ K^-$

• • • We do not use the following data for averages, fits, limits, etc. • • •

~ 170	11 MARTIN	98 RVUE	$N\bar{N} \rightarrow \pi\pi$
~ 200	12 MARTIN	97 RVUE	$\bar{N}N \rightarrow \pi\pi$
~ 60	13 OAKDEN	94 RVUE	0.36–1.55 $\bar{p}p \rightarrow \pi\pi$
~ 80	14 OAKDEN	94 RVUE	0.36–1.55 $\bar{p}p \rightarrow \pi\pi$
243 ± 16	15 ALPER	80 CNTR	62 $\pi^- p \rightarrow K^+ K^- n$
140 ± 15	15 ROZANSKA	80 SPRK	18 $\pi^- p \rightarrow p\bar{p}n$
263 ± 57	15 CORDEN	79 OMEG	12–15 $\pi^- p \rightarrow n2\pi$
100 ± 28	EVANGELISTA	79B OMEG	10 $\pi^- p \rightarrow K^+ K^- n$
107 ± 56	16 ANTIPOV	77 CIBS	25 $\pi^- p \rightarrow p3\pi$

9 From a partial-wave analysis of the data.

10 From an amplitude analysis of the reaction $\pi^+\pi^- \rightarrow 2\pi^0$.

11 Energy-dependent analysis.

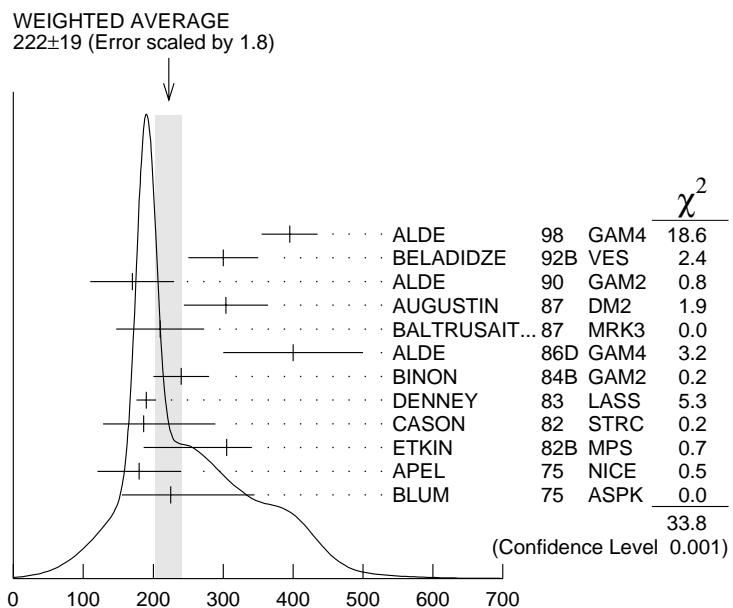
12 Single energy analysis.

13 From solution A of amplitude analysis of data on $\bar{p}p \rightarrow \pi\pi$. See however KLOET 96 who fit $\pi^+\pi^-$ only and find waves only up to $J = 3$ to be important but not significantly resonant.

14 From solution B of amplitude analysis of data on $\bar{p}p \rightarrow \pi\pi$. See however KLOET 96 who fit $\pi^+\pi^-$ only and find waves only up to $J = 3$ to be important but not significantly resonant.

15 $I(J^P) = 0(4^+)$ from amplitude analysis assuming one-pion exchange.

16 Width errors enlarged by us to $4\Gamma/\sqrt{N}$; see the note with the $K^*(892)$ mass.



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